

# Bending Insensitive Multi mode Fiber 50/125/250µm (OM2)

**Product Code: MMF500YB**  
**ITU-T G.651**



## Basic Parameters of Fiber Optic

Specification		
Fiber Type		OM2
Product Code		MMF500YB
Transmission Parameters of Fiber		Unit
Attenuation Coefficient		
850nm	dB/km	≤ 2.3
1300nm	dB/km	≤ 0.6
Overfilled Launch Bandwidth (OFL BW)		
850nm	MHz·km	≥ 500
1300nm	MHz·km	≥ 500
Backscatter Parameters of Fiber		
Attenuation Uniformity		dB/km
Group Index of Refraction		
850nm		1.482
1300nm		1.477
Geometrical Parameters of Fiber		
Numerical Aperture		0.200±0.015
Core Diameter		µm
		50.0±2.5
Core Non-circularity		%
		≤ 5
Core / Cladding Concentricity Error		µm
		≤ 1.5
Cladding Diameter		µm
		125±1
Cladding Non-circularity		%
		≤ 1.0
Coating Diameter		µm
		245±7
Coating Non-circularity		%
		≤ 6
Coating / Cladding Concentricity Error		µm
		≤ 10

## Mechanical Characteristics

	Unit	
Proof Test	Kpsi	≥ 100
Fatigue Resistance Parameter @23°C, 41%RH	nd	20
Bend Induced Attenuation		
2 turns around a mandrel of 15mm radius @850nm/1300nm	dB	≤ 0.1 / ≤ 0.3
2 turns around a mandrel of 7.5mm radius @850nm/1300nm	dB	≤ 0.2 / ≤ 0.5
Coating Strip Force (Typical)		
Average	N	1.5
Peak	N	≥ 1.3, ≤ 8.9
Fiber Length (Typical)	km	1.1~8.8

## Environmental Characteristics

Specification		
Product Type		OM2
Product Code		MMF500YB
	Unit	
Temperature Cycling Test @850nm and 1300nm -60°C to +85°C	dB/km	≦ 0.1
Temperature and Humidity Cycling Test @850nm and 1300nm -10°C to +85°C, 4%~98%RH	dB/km	≦ 0.1
Damp Heat Dependence Test @850nm and 1300nm +85°C, 85%RH for 30days	dB/km	≦ 0.1
Dry Heat Dependence Test @850nm and 1300nm +85°C, 30days	dB/km	≦ 0.1
Water soak Dependence Test @850nm and 1300nm +20°C for 30days	dB/km	≦ 0.1

### Success Prime Corporation

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